for bare in ubuntu :

1. install docker in worker node as well

apt install -y docker.io

2.

next step make sure docker and kubelet use same cgroup driver system

cat << EOF > /etc/docker/daemon.json

> {

"exec-opts": ["native.cgroupdriver=systemd"]

}

EOF

3. gpg key for repo

curl -s https://packages.cloud.google.com/apt/doc/apt-key.gpg | apt-key add -

4. repo source

cat <<EOF > /etc/apt/sources.list.d/kubernetes.list

> deb http://apt.kubernetes.io /kubernetes-xenail main

> EOF

5. apt update

6. apt install -y kubelet kubeadm kubectl

Master

1. sudo kubeadm init --pod-network-cidr=10.244.0.0/16

initializes the pod network like flannel

2.

To start using your cluster, you need to run the following as a regular user:

kubenertes config needs is added

mkdir -p $HOME/.kube

sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config

sudo chown $(id -u):$(id -g) $HOME/.kube/config

3. now pod networking

cni to network pods together

sudo kubectl apply -f https://raw.githubusercontent.com/coreos/flannel/v0.9.1/Documentation/kube-flannel.yml

clusterrole "flannel" created

clusterrolebinding "flannel" created

serviceaccount "flannel" created

configmap "kube-flannel-cfg" created

daemonset "kube-flannel-ds" created

4. in order to join this cluster

kubeadm join --token 1761f4.46b45c568d9f6ced 172.31.127.80:6443 --discovery-token-ca-cert-hash sha256:9a0cf267be2fa28660cd158813104f8d0820606a16e612f670f7ec71fe884cb9

4. kube proxy and kube flannel is added when cluster is joined

kube-flannel-ds-6glzn 1/1 Running 0 3m

kube-system kube-flannel-ds-97f64 1/1 Running 1 1m

kube-system kube-flannel-ds-mntcx 1/1 Running 0 9m

kube-system kube-proxy-6wb2p 1/1 Running 0 16m

kube-system kube-proxy-7k7w6 1/1 Running 0 3m

kube-system kube-proxy-x8stz 1/1 Running 0 1m

apiVersion: rbac.authorization.k8s.io/v1beta1  
kind: ClusterRoleBinding  
metadata:  
   name: kubernetes-dashboard  
   labels:  
     k8s-app: kubernetes-dashboard  
roleRef:  
   apiGroup: rbac.authorization.k8s.io  
   kind: ClusterRole  
   name: cluster-admin  
subjects:  
 kind: ServiceAccount  
   name: kubernetes-dashboard  
   namespace: kube-system

nohup kubectl proxy --address="172.31.127.80" -p 443 --accept-hosts='^\*$' &

[http://172.31.127.80:443/api/v1/namespaces/kube-system/services/https:kubernetes-dashboard:/proxy/](http://192.168.3.81:443/api/v1/namespaces/kube-system/services/https:kubernetes-dashboard:/proxy/)

http:// 52.87.170.93:6443/api/v1/namespaces/kube-system/services/https:kubernetes-dashboard:/proxy/

in centos:

1. install docker

systemctl enable docker

systemctl start docker

2. gpg key for repo

cat <<EOF > /etc/yum.repos.d/kubernetes.repo

3. setenforce 0

4. nano /etc/selinux/config

make it permissive in se linux

5. yum install -y kubelet kubeadm kubectl